BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Providing Asphalting to Bad reaches at Vidyaranyapura Last bus stop to Durga temple Joining Road in ward no. 09 of Vidyaranyapura sub division.**

Estimate Cost: 1000000.00

Description	Unit	No.	L	B	D	Qty	Rate	Amount
SRRB 300-1 Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 141 Item No. 19.1 / PWD SR 2015-16**	Cum							
Drain Desilting		2	238.00	0.45	0.35	74.97		
Berm Cutting		2	238.00	1.15	0.20	109.48		
						184.45	83.16	**15339.00**
Basic Rate	77.00							
Area Weightage @8%	6.16							
Total	**83.16**							
Removing B.S Slab of Drain and stacking **Page No. 25 / Item No. 5.32 / PWD SR 2015-16**	Sqm							
		2	238.00		0.90	428.40		
						428.40	63.72	**27298.00**
Basic Rate	59.00							
Area Weightage @ 8%	4.72							
Total	**63.72**							
Refixing stone slabs of drains and pointing in C.M (1:3) **Page No. 25 / Item No. 5.33 / PWD SR 2015-16**	Scm							
		Qty Vide Item No. 2				**428.40**	78.84	**33775.00**
Basic Rate	73.00							
Area Weightage @ 8%	5.84							
Total	**78.84**							
SRRB 300-47: scarifying kankar/gravel/metal crust upto 150mm thick with pick axes and disposal of stuff within a lead of 100 meters including cost of all labour charges complete as per specifications MORTH chapter 3, **No. 146 / Item No. 19.53 / PWD SR 2015-16**	Sqm							
		2	238.00	1.35		642.60		
						642.60	25.92	**16656.00**
Basic Rate	24.00							
Area Weightage @ 8%	1.92							
Total	**25.92**							

Description	Unit	No.	L	B	D	Qty	Rate	Amount
KSRR3 M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per MORTH specification NO. 406. **Page No. 157 / Item No. 20.18 / PWD SR 2015-16**	Cum							
		2	238.00	1.35	0.20	128.52		
						128.52	1713.96	**220278.00**
Basic Rate	1597.00							
Area Weightage @ 8%	126.96							
Total	**1713.96**							
Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM, WMM including cleaning of road surface and spraying primer at the rate of 0.60 Kg / sqm using mechnical means complete as per specifications. MORTH specification NO. 502, **Page No. 160 / Item No. 21.6 / PWD SR 2015-16**	Sqm							
		1	238.00	6.50		1547.00		
						1547.00	32.40	**50123.00**
asper Revised Basic Rate	30.00							
Area Weightage @ 8%	2.40							
Total	**32.40**							
KSRR3 M500-19: providing and laying **bituminous concrete** 40mm thick with hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desire compaction as per MORTH specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification NO. 509, **using 40/60 TPH capacity with Mechanical Paver Gr-II (30 mm to 45 mm) with 6% VG-30 Bitumen, Page No. 164 / Item No. 21.22.6/ PWD SR 2015-16**	Cum							
		1	238.00	6.50	0.040	61.88		
						61.88	9822.60	**607822.00**
Basic Rate	9095.00							
Area Weightage @ 8%	727.60							
Total	**9822.60**							

117

Description	Unit	No.	L	B	D	Qty	Rate	Amount
ac for Disposal of Debris shall be payable at rage rates by Mechanical means inlcuding ding and unloading. **From 0.00 to 11.90 Km (** **VD SR 2015-16** Rates P No 139)	Cum							
						Qty. Vide Item No. 1	**175.23**	106.34	**18633.00**
erage weight of earth 1.28 tonne / kg for 11.90 = 1.28 TX 11.90Km X 2.0/km= 30.46	30.46							
d loading and unloading Charges It No 17.1 **RRB M 100-1**	68.00							
	98.46							
Area Weightage @ 8%	7.68							
Total	**106.34**							
o Total								**989924.00**
Third Part QC inspection Charges @ 1% of imate Cost								**9899.00**
cellaneous and other Charges	L/S							**177.00**
							Total	**1000000.00**
(Rupees Ten Lakhs Only)								

FICATE:

work spot has been inspected and the work is found necessary.

s est mate is prepared as per PWD SR of 2015-16.

s works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer 22/11/16
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

curb painting
at road side
Zebra marking
Extend upto bus stop
at Temple circle

BRUHAT BANGALORE MAHANAGARA PALIKE

(109)

YELAHANKA ZONE

Name of the work: **Estimate for Improvements to Roads and Drains in Thindlu SC Colony in Ward no 09, Vidyaranyapura Sub Division.**

Estimate Cost: 1500000.00

S No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly crossed. the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 141 / Item No. 19.1/ PWD SR 2015-16**	Cum							
	Thindlu Colony								
	1st cross R/s		1	27.00	0.90	0.15	3.65		
	2nd cross R/s		1	30.00	0.90	0.15	4.05		
	3rd cross R/s		1	28.00	0.90	0.15	3.78		
	4th cross R/s		1	27.00	0.90	0.15	3.65		
	5th cross R/s		1	21.00	0.90	0.15	2.84		
	6th cross R/s		1	20.00	0.90	0.15	2.70		
	7th cross R/s		1	16.00	0.90	0.15	2.16		
	9th cross R/s		1	10.00	0.90	0.15	1.35		
	1st cross L/s		1	18.00	0.90	0.15	2.43		
	2nd cross L/s		1	15.00	0.90	0.15	2.03		
	3rd cross L/s		1	16.00	0.90	0.15	2.16		
	4th cross L/s		1	22.00	0.90	0.15	2.97		
	5th cross L/s		1	29.00	0.90	0.15	3.92		
	6th cross L/s		1	21.00	0.90	0.15	2.84		
	7th cross L/s		1	21.00	0.90	0.15	2.84		
	8th cross L/s		1	30.00	0.90	0.15	4.05		
	9th cross L/s		1	26.00	0.90	0.15	3.51		
	Main road patch work		2	10.00	2.00	0.15	9.60		
							60.50	83.16	**5031.00**
	Basic Rate	77.00							
	Area Weightage @8%	6.16							
	Total	**83.16**							
2	KSRB 4-1.3 : Providing and aying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57 cum machine mixed concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1.4.2. **No. 12/ Item No. 4.3/ PWD SR 2015-16**	Cum							
	Thinclu Colony								
	1st cross R/s		1	27.00	0.90	0.15	3.65		

Sl. No	Description	Unit	Nc	L	B	D	Qty	Rate	Amount
	2nd cross R/s		1	30.00	0.90	0.15	4.05		
	3rd cross R/s		1	28.00	0.90	0.15	3.78		
	4th cross R/s		1	27.00	0.90	0.15	3.65		
	5th cross R/s		1	21.00	0.90	0.15	2.84		
	6th cross R/s		1	20.00	0.90	0.15	2.70		
	7th cross R/s		1	16.00	0.90	0.15	2.16		
	9th cross R/s		1	10.00	0.90	0.15	1.35		
	Left side roads								
	1st cross L/s		1	18.00	0.90	0.15	2.43		
	2nd cross L/s		1	15.00	0.90	0.15	2.03		
	3rd cross L/s		1	16.00	0.90	0.15	2.16		
	4th cross L/s		1	22.00	0.90	0.15	2.97		
	5th cross L/s		1	29.00	0.90	0.15	3.92		
	6th cross L/s		1	21.00	0.90	0.15	2.84		
	7th cross L/s		1	21.00	0.90	0.15	2.84		
	8th cross L/s		1	30.00	0.90	0.15	4.05		
	9th cross L/s		1	26.00	0.90	0.15	3.51		
	Main roaqd patch work		2	16.00	2.00	0.15	9.60		
							60.50	5070.60	**306746.00**
	Basic Rate	4695.00							
	Area Weightage @8%	375.60							
	Total	**5070.60**							
3	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 18 / Item No. 4.48 / PWD SR 2015-16**	Cum							
	1st cross R/s		1	27.00	3.70	0.125	12.49		
	2nd cross R/s		1	30.00	3.20	0.125	12.00		
	3rd cross R/s		1	28.00	3.20	0.125	11.20		
	4th cross R/s		1	27.00	3.20	0.125	10.80		
	5th cross R/s		1	21.00	3.30	0.125	8.66		
	6th cross R/s		1	20.00	3.40	0.125	8.50		
	7th cross R/s		1	16.00	3.30	0.125	6.60		
	9th cross R/s		1	10.00	2.50	0.125	3.13		
	1st cross L/s		1	18.00	2.70	0.125	6.08		
	2nd cross L/s		1	15.00	3.00	0.125	5.63		
	3rd cross L/s		1	16.00	2.40	0.125	4.80		
	4th cross L/s		1	22.00	3.70	0.125	10.18		
	5th cross L/s		1	29.00	2.50	0.125	9.06		
	6th cross L/s		1	21.00	3.00	0.125	7.88		
	7th cross L/s		1	21.00	3.00	0.125	7.88		
	8th cross L/s		1	30.00	2.40	0.125	9.00		
	9th cross L/s		1	26.00	2.70	0.125	8.78		
	Main road patch work		2	16.00	2.00	0.125	8.00		
							150.64	6332.04	**953843.00**
	Basic Rate	5863.00							
	Area Weightage @8%	469.04							
	Total	**6332.04**							

Sl No	Description	Unit	No	L	B	D	Qty	Rate	Amount
4	KSRB 4-8.4: Providing and removing centering, shuttering strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (P.15 / I.4.31 PWD SR - 2015-16)	Sqm							
	1st cross R/s Road concrete drain edge		1	27.00	0.15		4.05		
	2nd cross R/s		1	30.00	0.15		4.50		
	3rd cross R/s		1	28.00	0.15		4.20		
	4th cross R/s		1	27.00	0.15		4.05		
	5th cross R/s		1	21.00	0.15		3.15		
	6th cross R/s		1	20.00	0.15		3.00		
	7th cross R/s		1	16.00	0.15		2.40		
	9th cross R/s		1	10.00	0.15		1.50		
							0.00		
	1st cross L/s		1	18.00	0.15		2.70		
	2nd cross L/s		1	15.00	0.15		2.25		
	3rd cross L/s		1	16.00	0.15		2.40		
	4th cross L/s		1	22.00	0.15		3.30		
	5th cross L/s		1	29.00	0.15		4.35		
	6th cross L/s		1	21.00	0.15		3.15		
	7th cross L/s		1	21.00	0.15		3.15		
	8th cross L/s		1	30.00	0.15		4.50		
	9th cross L/s		1	26.00	0.15		3.90		
							56.55	306.72	**17345.00**
	Basic Rate	284.00							
	Area Weightage @8%	22.72							
	Total	**306.72**							
5	Vacuum De-watering with vacuum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift No. **174 / Item No. 22.7 / PWD SR 2015-16**	Sqm							
	1st cross R/s		1	27.00	3.70		99.90		
	2nd cross R/s		1	30.00	3.20		96.00		
	3rd cross R/s		1	28.00	3.20		89.60		
	4th cross R/s		1	27.00	3.20		86.40		
	5th cross R/s		1	21.00	3.30		69.30		
	6th cross R/s		1	20.00	3.40		68.00		
	7th cross R/s		1	16.00	3.30		52.80		
	9th cross R/s		1	10.00	2.50		25.00		
	1st cross L/s		1	18.00	2.70		48.60		
	2nd cross L/s		1	15.00	3.00		45.00		
	3rd cross L/s		1	16.00	2.40		38.40		
	4th cross L/s		1	22.00	3.70		81.40		
	5th cross L/s		1	29.00	2.50		72.50		
	6th cross L/s		1	21.00	3.00		63.00		
	7th cross L/s		1	21.00	3.00		63.00		
	8th cross L/s		1	30.00	2.40		72.00		
	9th cross L/s		1	26.00	2.70		70.20		
	Main road patch work		2	16.00	2.00		64.00		
							1205.10	97.20	**117136.00**
	Basic Rate	90.00							

Description	Unit	No.	L	B	D	Qty	Rate	Amount
Area Weightage @8%	7.20							
Total	**97.20**							
Providing groove cutting for **cement pavement** with of 5mm to 10mm and depth 80Omm-100mm including cost of cutting machine, generator and HOM of machinery, including cost of blade, coolant etc, including cleaning of groove and providing sand and hot bitumen filiarsm and filler metal etc including of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications **Page No. 175 / Item No. 22.8.1 / PWD SR 2015-16**								
st cross R/s	Rmt							
nd cross R/s		3	3.70		11.10			
rd cross R/s		3	3.20		9.60			
th cross R/s		3	3.20		9.60			
h cross R/s		3	3.20		9.60			
h cross R/s		2	3.30		6.60			
h cross R/s		2	3.40		6.80			
h cross R/s		2	3.30		6.60			
		1	2.50		2.50			
t cross L/s								
d cross L/s		2	2.70		5.40			
d cross L/s		2	3.00		6.00			
cross L/s		2	2.40		4.80			
cross L/s		2	3.70		7.40			
oss L/s		3	2.50		7.50			
cross L/s		2	3.00		6.00			
cross L/s		2	3.00		6.00			
oss L/s		3	2.40		7.20			
		3	2.70		8.10			
Basic Rate	115.00				**120.80**	124.20		15003.00
Area Weightage @8%	9.20							
Total	**124.20**							
ding granite slabs of selected quality hly dressed and fixed in cement ar(1:6) including fixing curing etc, lete 10 cms thick **Page No. 25 / Item 5.31.2 / PWD SR 2015-16**	Sqm							
For Covering Slab		18	3.00	0.60	32.40			
Basic Rate	736.00				**32.40**	794.88		**25754.00**
Area Weightage @ 8%	58.88							
Total	**794.88**							
5-9 Providing chamfering edges to slab 2.5cms. wide as per cations. (only chamfered length shall sored) KBS 5.1.13 **Page No. 24 / o. 5.22 / PWD SR 2015-16**	m							
		90	2.40		216.00			
Basic Rate	33.00					35.64		7698.00
Area Weightage @ 8%	2.64							
Total	**35.64**							

Description	Unit	No.	L	B	D	Qty	Rate	Amount
SRB 5-8.2 : Providing two line dressing to ...ite stone slab / granite stone masonry per specifications. KBS 5-1.13 **Page No. / Item No. 5.18/ PWD SR 2015-16**	Sqm					(105)		
					Qty Vide Item No.	32.40		
						32.40	924.48	**29953.00**
Basic Rate	856.00							
Area Weightage @ 8%	68.48							
Total	**924.48**							
...ad for Disposal of Debris shall be ...yable at carage rates by Mechanical ...ans inluding loading and unloading ...m 0.00 to 11.90 Km (PWD SR 2015-16 ...tes P No 139)	Cum							
					Qty. Vide Item No. 1	**60.50**	106.34	**6433.00**
...erage weight of earth 1.28 tonne / kg for ...90 Km = 1.28 TX 11.90Km X 2.0/km= ...46	30.46							
...d loading and unloading Charges It No ...1 KSRRB M 100-1	68.00							
	98.46							
Area Weightage @ 8%	7.88							
Total	106.34							
...b Total								**1484942.00**
...rd Party Inspection Charges @ 1%								**14849.00**
...cellaneous and unforeseen charges	LS							**209.00**
							Total	**1500000.00**

(Rupees Fifteen Lakhs Only)

...CATE :

...e work spot has been inspected and the work is found necessary.
...s estimate is prepared as per P.W.D S.R of 2015-16.
...e provisions were made in this est mate are necessary and adequate.
...s works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike 22/1/16
Byatarayanapura Division

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Improvements to roads and drains at Basava samiti Layout in ward No 09 of Vidyaranyapura sub Division.**

Estimate Cost: 2500000.00

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 141 / Item No. 19.1 / PWD SR 2015-16**	Cum							
	Desilting								
	2nd Cross L/S		2	90.00	0.45	0.35	28.35		
	Cross Roads 1and 2		4	70.00	0.45	0.35	44.10		
	New Drain		1	90.00	1.00	0.90	81.00		
	Berm Cutting								
	2nd Cross L/S		2	90.00	1.20	0.25	54.00		
	Cross Roads		4	70.00	1.20	0.25	84.00		
							291.45	83.16	**24237.00**
	Basic Rate	77.00							
	Area Weightage @8%	6.16							
	Total	**83.16**							
2	Removing B.S Slab of Drain and stacking **Page No. 25 / Item No. 5.32 / PWD SR 2015-16**	Sqm							
			2	90.00		1.35	243.00		
			4	70.00		1.35	378.00		
							621.00	63.72	**39570.00**
	Basic Rate	59.00							
	Area Weightage @ 8%	4.72							
	Total	**63.72**							
3	Refixing stone slabs of drains and pointing in C.M (1:3) **Page No. 25 / Item No. 5.33 / PWD SR 2015-16**	Sqm							
				Qty Vide Item No. 2			**621.00**	78.84	**48960.00**
	Basic Rate	73.00							
	Area Weightage @ 8%	5.84							
	Total	**78.84**							

Description	Unit	No	L	B	D	Qty	Rate	Amount
SRB 5-14 : Providing and constructing precast oncrete solid blocks with compressive strength ot los than 35 Kg/sqm with cement mortar 1:4 asonry (quoin, Jamb, closer blocks) with solid oncrete blocks of size 40x20x20 cms nforming to I.S. 2185/1965 n superstructure cluding cost of matenals labour charges, affolding, curing complete as per ecifications **Page No. 25 / Item No. 5.27 / VD SR 2015-16**	Sqm							
		2x4	70.00		0.40	224.00		
		2x2	90.00		0.20	72.00		
						296.00	1018.44	**301458.00**
Basic Rate	943.00							
Area Weightage @ 8%	75.44							
Total	**1018.44**							
RB 4-1.6 : Providing and laying in position in cement concrete of **mix 1:2:4 with cement 240 kgs with 20mm** and down size graded nite metal coarse aggregates @ 0.878 cum fine aggregates @ 0.459 cum machine ed concrete laid in layers not exceeding ms, thick well compacted in foundation, th and cills, including cost of all materials. our, HOM of machinery, curing complete as specifications specification No. KBS 4.2. **No. 12/ Item No. 4.6 / PWD SR 2015-16**								
ing	Cum							
		2x4	70.00	0.20	0.10	11.20		
t Concrete		4	90.00	0.20	0.10	7.20		
		2	70.00	0.60	0.10	8.40		
		2	90.00	0.60	0.10	10.80		
						37.60	5490.72	**206451.00**
Basic Rate	5084.00							
Area Weightage @ 8%	406.72							
Total	**5490.72**							
B 4-1.3 : Providing and laying in position cement concrete of **mix 1:4:8 with OPC ent @ 180 kgs with 40mm** and down size ed granite metal coarse aggregates @ cum and fine aggregates @ 0.57 cum ine mixed concrete laid in layers not ading 15cms, thick well compacted, in ation and plinth including cost of all rials labour HOM of machinery, curing lete as per specifications. Specification No. 4.1,4.2 **No. 12/ Item No. 4.3/ PWD SR 16**								
Drain	Cum							
		1	90.00	0.90	0.15	12.15		
		4	90.00	0.23	0.10	8.28		
		8	90.00	0.23	0.10	16.56		
						36.99	5070.60	**187561.00**

Sl No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Basic Rate	4695.00							
	Area Weightage @ 8%	375.60							
	Total	**5070.60**							
7	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal**, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisisor @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column piers abutments, pillars, posts struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc including cost of all materials, labour, HOM of machinery curing, complete as per specifications. Specification No. KBS 4 1.4.6. **Page No. 13 / Item No. 4.11 / PWD SR 2015-16**								
		Cum							
	RCC Drain Bottom		1	90.00	0.90	0.15	12.15		
			2	90.00	0.15	0.60	16.20		
			1	90.00	0.90	0.10	8.10		
							36.45	6198.12	**225921.00**
	Basic Rate	5739.00							
	Area Weightage @ 8%	459.12							
	Total	**6198.12**							
8	KSRB 4.9.2 Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No KBS 4 6.3 **TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2015-16**								
		Tonne							
			0.06	36.45			2.19		
							2.19	69805.80	**152665.00**
	Basic Rate	64635.00							
	Area Weightage @ 8%	5170.80							
	Total	**69805.80**							

S. No	Description	Unit	No	L	B	D	Qty	Rate	Amount
9	KSRB 4.6.2 Providing and removing centering, shutering, strutting propping etc., and **removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm** including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.18 / PWD SR 2015-16**	Sqm							
			4	90.00		0.60	216.00		
			1	90.00	0.60		54.00		
	RCC Drain Sidewall		2	90.00		0.15	27.00		
	Basic Rate	305.00					**297.00**	329.40	**97832.00**
	Area Weightage @ 8%	24.40							
	Total	**329.40**							
8	KSRRB 300-47: scarifying kankar/gravel/metal crust upto 150mm thick with pick axes and disposal of stuff within a lead of 100 meters including cost of all labour charges complete as per specifications MORTH chapter 3. **No. 146 / Item No. 19.53 / PWD SR 2015-16**	Sqm							
			2	90.00	1.35		243.00		
			4	70.00	1.35		378.00		
			2	90.00	1.35		243.00		
	UGD Cutting Portion		1	150.00	1.00		150.00		
							1014.00	25.92	**26283.00**
	Basic Rate	24.00							
	Area Weightage @ 8%	1.92							
	Total	**25.92**							
10	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per MORTH specification NO. 406, **Page No. 157 / Item No. 20.18 / PWD SR 2015-16**	Cum							
	L/S 2nd Cross		2	90.00	1.35	0.20	48.60		
	Cross Road 1 and 2		4	70.00	1.35	0.20	75.60		
	Cross Road 3		2	90.00	1.35	0.20	48.60		
	Main Road Patch Work		1	150.00	1.20	0.20	36.00		
							208.80	1713.96	**357875.00**
	Basic Rate	1587.00							
	Area Weightage @ 8%	126.96							
	Total	**1713.96**							

Sl No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
11	Providing and applying primer coat with S S. bitumen emulsion on prepared surface of granular base such as WBM, WMM including cleaning of road surface and spraying primer at the rate of 0.60 Kg / sqm using mechnical means complete as per specifications. MORTH specification NO. 502, **Page No. 160 / Item No. 21.6 / PWD SR 2015-16**	Sqm							
	L/S 2nd Cross		1	90.00	5.00		450.00		
	Cross Road 1 and 2		2	70.00	5.00		700.00		
	Cross Road 3		1	90.00	5.00		450.00		
	Main Road Patch Work		1	150.00	1.50		225.00		
							1825.00	32.40	**59130.00**
	aspar Revised Basic Rate	30.00							
	Area Weightage @ 8%	2.40							
	Total	**32.40**							
12	KSRRB M500-15. providing and laying **bituminous concrete** 40mm thick with hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desire compaction as per MORTH specification clause No 500.9 complete in all respects as per specifications MORTH Specificatonon NO. 509, **using 40/60 TPH capacity with Mechanical Paver Gr-II (30 mm to 45 mm) with 6% VG-30 Bitumen, Page No. 164 / Item No. 21.22.6/ PWD SR 2015-16**	Cum							
	L/S 2nd Cross		1	90.00	5.00	0.040	18.00		
	Cross Road 1 and 2		2	70.00	5.00	0.040	28.00		
	Cross Road 3		1	90.00	5.00	0.040	18.00		
	Main Road Patch Work		1	150.00	1.50	0.040	9.00		
				200			**73.00**	9822.60	**717050.00**
	Basic Rate	9095.00							
	Area Weightage @ 8%	727.60							
	Total	**9822.60**							
13	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlouding loading and unloading **From 0.00 to 11.90 Km (PWD SR 2015-16** Rates P No 139)	Cum							
			Qty. Vide Item No. 1				**262.31**	106.34	**27893.00**
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 TX 11.90Km X 2.0/km= 30.46	30.46							
	Add loading and unloading Charges It **No 17.1 KSRRB M 100-1**	68.00							
		98.46							

(92)

Description	Unit	No.	L	B	D	Qty	Rate	Amount
Area Weightage @ 8%	7.66							
Total	106.34							
Total								2472686.00
Third Part QC inspection Charges @ 1% of imate Cost								24729.00
cellaneous and other Charges	L/S							2385.00
							Total	2500000.00

(Rupees Twenty Five Lakhs Only)

TICATE:

work spot has been inspected and the work is found necessary.
estimate is prepared as per PWD SR of 2015-16.
works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer 22/11/16
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

lane marking

RCC drain - 1x1 feet

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

me of the work: **Improvements to roads and drains at Kempegowda nagara in ward No 09 of Vidyaranyapura sub Division.**

Estimate Cost: 1500000.00

Description	Unit	No.	L	B	D	Qty	Rate	Amount
KSRRB 303-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.6m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 141 Item No. 19.1 / PWD SR 2015-16**	Cum							
or New Drain								
RHS		1	120.00	1.00	1.00	120.00		
Desilting		1	60.00	0.60	0.45	16.20		
		1	90.00	0.60	0.45	24.30		
erm Cutting								
		2	120.00	2.50	0.35	210.00		
						370.50	83.16	**30811.00**
Basic Rate	77.00							
Area Weightage @8%	6.16							
Total	**83.16**							
emoving B.S Slab of Drain and stacking **Page o. 25 / Item No. 5.32 / PWD SR 2015-16**	Sqm							
empgowdangara L/S		1	90.00		1.00	90.00		
						90.00	63.72	**5735.00**
Basic Rate	59.00							
Area Weightage @ 8%	4.72							
Total	**63.72**							
efixing stone slabs of drains and pointing in M (1:3) **Page No. 25 / Item No. 5.33 / PWD R 2015-16**	Sqm							
		Qty Vice Item No. 2				**90.00**	78.84	**7096.00**
Basic Rate	73.00							
Area Weightage @ 8%	5.84							
Total	**78.84**							
SRB 4-1.3 : Providing and laying in position ain cement concrete of **mix 1:4:8 with OPC ment @ 180 kgs with 40mm** and down size ded granite metal coarse aggregates @ 85cum and fine aggregares @ 0.57 cum achine mixed, concrete laid in layers not, ceeding 15cms. thick, well compacted, in ration and plinth, including cost of all aterials, labour, HOM of machinery, curing mplete as per specifications. Specification No. S 4.1.4.2. **No. 12/ Item No. 4.3/ PWD SR 15-16**	Cum							

o	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	CC Drain		1	120.00	0.90	0.15	16.20		
							16.20	5070.60	**82144.00**
	Basic Rate	4695.00							
	Area Weightage @ 8%	375.60							
	Total	**5070.60**							
	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials labour, HOM of machinery, curing complete as per specifications, specification No. KBS 4.1.4.2. **No. 12/ Item No. 4.6 / PWD SR 2015-16**								
	CC Drain Vent	Cum	1	90.00	0.60	0.10	5.40		
							5.40	5490.72	**29650.00**
	Basic Rate	5094.00							
	Area Weightage @ 8%	408.72							
	Total	**5490.72**							
	KSRB 4.2.2 : Providing and laying in position **einforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm nd down size graded granite** metal coarse ggregates @ 0.878 cum and fine aggregates @ .459 cum with superplastisiser @ 3lts onfirming to IS 9103-1999 reaffirmed-2008 achine mixed, concrete laid in layers not xceed ng 15cms thick, vibrated for all works n undation plinth and ground floor level for roof abs, staircase lintels, retaining walls, walls ny thickness) including attached plasters olumn, piers, abutments, pillars, posts struts, ltresses string or lacing courses, parapets, oping bed blocks, anchor blocks, plain window ls, fillets etc, including cost of all materials, cour, HOM of machinery, curing complete as r specifications. Specification No. KBS 4.1.4.6, **ge No. 13 / Item No. 4.11 / PWD SR 2015-16**								
	C Drain Bottom le Wall	Cum	1	120.00	0.90	0.15	16.20		
			2	120.00	0.15	0.60	21.60		
							37.80	6198.12	**234289.00**
	Basic Rate	5739.00							
	Area Weightage @ 8%	459.12							
	Total	**6198.12**							

Description	Unit	No.	L	B	D	Qty	Rate	Amount
KSRB 4.6.2. Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid); cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2015-16**								
	Tonne							
		0.06	37.80			2.27		
						2.27	69805.80	**158320.00**
Basic Rate	64635.00							
Area Weightage @ 8%	5170.80							
Total	**69805.80**							
KSRB 4.6.2 : Providing and removing centering, shuttering, strutting, propping etc., and **removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm** including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.18 / PWD SR 2015-16**								
	Sqm							
		4	120.00		0.60	288.00		
						288.00	329.40	**94867.00**
Basic Rate	305.00							
Area Weightage @ 8%	24.40							
Total	**329.40**							
KSRRB 300-47, scarifying kankar/gravel/metal crust upto 150mm thick with pick axes and disposal of stuff within a lead of 100 meters including cost of all labour charges complete as per specifications MORTH chapter 3, **No. 146 / Item No. 19.53 / PWD SR 2015-16**								
	Sqm							
		1	127.00	6.00		762.00		
						762.00	25.92	**19751.00**
Basic Rate	24.00							
Area Weightage @ 8%	1.92							
Total	**25.92**							

	Description	Unit	No	L	B	D	Qty	Rate	Amount
10	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per MORTH specification NO. 406. **Page No. 157 / Item No. 20.18 / PWD SR 2015-16**	Cum							
			1	127.00	7.50	0.23	219.08		
							219.08	1713.96	**375486.00**
	Basic Rate	1587.00							
	Area Weightage @ 8%	126.96							
	Total	**1713.96**							
11	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM, WMM including cleaning of road surface and spraying primer at the rate of 0.60 Kg / sqm using mechnical means complete as per specifications MORTH specification NO. 502, **Page No. 160 / Item No. 21.6 / PWD SR 2015-16**	Sqm							
			1	127.00	7.50		952.50		
							952.50	32.40	**30861.00**
	asper Revised Basic Rate	30.00							
	Area Weightage @ 8%	2.40							
	Total	**32.40**							
12	KSRRB M500-19: providing and laying **bituminous concrete** 40mm thick with hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desire compacton as per MORTH specification clause No. 500.9 complete in all respects as per specifications. MORTH Specificationon NO. 509 **using 40/60 TPH capacity with Mechanical Paver Gr-II (30 mm to 45 mm) with 6% VG-30 Bitumen, Page No. 164 / Item No. 21.22.6/ PWD SR 2015-16**	Cum							
			1	127.00	7.50	0.040	38.10		
							38.10	9822.60	**374241.00**
	Basic Rate	9095.00							
	Area Weightage @ 8%	727.60							
	Total	**9822.60**							

Sl No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
13	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. **From 0.00 to 11.90 Km (PWD SR 2015-16** Rates P No 138);	Cum							
				Qty. Vide Item No. 1			370.50	106.34	**39398.00**
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 TX 11.90Km X 2.0/km= 30.46	30.46							
	Add loading and unloading Charges It No 17.1 **KSRRB M 100-1**	68.00							
		98.46							
	Area Weightage @ 8%	7.88							
	Total	**106.34**							
14	Sub Total								**1462649.00**
15	For Third Part QC inspection Charges @ 1% of Estimate Cost								**14826.00**
16	Miscellaneous and other Charges	L/S							**2525.00**
								Total	**1500000.00**

(Rupees Fifteen Lakhs Only)

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2015-16.
3 This works come under B.B.M.P limits

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Division

Executive Engineer
Vidyaranyapura Division
BBMP, Bangalore-92

RCC drawings to be converted to R.S. slab drawings

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Improvements to roads and drains at Ganesha Layout in ward No 09 of Vidyaranyapura sub Division.**

Estimate Cost: 2000000.00

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 141 / Item No. 19.1 / PWD SR 2015-16**	Cum							
	Desilting		2	289.00	0.60	0.45	156.06		
	Berm Cutting		2	289.00	1.55	0.35	313.57		
							469.63	83.16	**39054.00**
	Basic Rate	77.00							
	Area Weightage @8%	6.16							
	Total	**83.16**							
2	Removing B.S Slab of Drain and stacking **Page No. 25 / Item No. 5.32 / PWD SR 2015-16**	Sqm							
			2	289.00		1.35	780.30		
							780.30	63.72	**49721.00**
	Basic Rate	59.00							
	Area Weightage @ 8%	4.72							
	Total	**63.72**							
3	Refixing stone slabs of drains and pointing in C.M (1:3) **Page No. 25 / Item No. 5.33 / PWD SR 2015-16**	Sqm							
			Qty Vide Item No. 2				**780.30**	78.84	**61519.00**
	Basic Rate	73.00							
	Area Weightage @ 8%	5.84							
	Total	**78.84**							
9	KSRRB 300-47: scarifying kanka/gravel/metal crust upto 150mm thick with pick axes and disposal of stuff within a lead of 100 meters including cost of all labour charges complete as per specifications MORTH chapter 3, **No. 143 / Item No. 19.53 / PWD SR 2014-15**	Sqm							
			1	289.00	5.50		1589.50		
							1589.50	25.92	**41200.00**
	Basic Rate	24.00							
	Area Weightage @ 8%	1.92							
	Total	**25.92**							

Sl No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
10	KSRR 3/ M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site laying in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per MORTH specification NO 406, **Page No. 157 / Item No. 20.18 / PWD SR 2015-16**	Cum							
			1	289.00	5.50	0.20	317.90		
							317.90	1713.96	**544868.00**
	Basic Rate	1587.00							
	Area Weightage @ 8%	126.96							
	Total	**1713.96**							
11	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM, WMM including cleaning of road surface and spraying primer at the rate of 0.60 Kg / sqm using mechnical means complete as per specifications MORTH specification NO. 502, **Page No. 160 / Item No. 21.6 / PWD SR 2015-16**	Sqm							
			1	289.00	5.50		1589.50		
							1589.50	32.40	**51500.00**
	asper Revised Basic Rate	30.00							
	Area Weightage @ 8%	2.40							
	Total	**32.40**							
	KSRRB 500-11: Providing and laying **bituminous macadam** on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead lift and cost including load, lift and cost of all materials labour HOM of machineries complete as per specifications **using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II (50 mm to 75 mm) with 3.3 % VG-30 Bitumen, Page No. 161 / Item No. 21.11.6/ PWD SR 2015-16**	Cum							
			1	289.00	5.50	0.050	79.48		
							79.48	6193.80	**492252.00**
	Basic Rate	5735.00							
	Area Weightage @ 8%	458.80							
	Total	**6193.80**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	KSRRB 500-7. Providing and applying **tack coat** using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding clearing of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications, MORTH chapter 5 **No. 160 / Item No. 21.7 / PWD SR 2015-16**	Sqm							
			1	289.00	5.50		1589.50		
							1589.50	15.12	**24033.00**
	asper Revised Basic Rate	14.00							
	Area Weightage @ 8%	1.12							
	Total	**15.12**							
12	KSRRB M500-19. providing and laying **bituminous concrete** 40mm thick with hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder and filler transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desire compaction as per MORTH specification clause No. 500.9 complete in all respects as per specifications MORTH Specificationon NO. 509, **using 40/60 TPH capacity with Mechanical Paver Gr-II (30 mm to 45 mm) with 6% VG-30 Bitumen, Page No. 164 / Item No. 21.22.6/ PWD SR 2015-16**	Cum							
			1	289.00	5.50	0.040	63.58		
							63.58	9822.60	**624521.00**
	Basic Rate	5095.00							
	Area Weightage @ 8%	727.60							
	Total	**9822.60**							
13	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. **From 0.00 to 11.90 Km (PWD SR 2015-16** Rates P No 139)	Cum							
			Qty. Vide Item No. 1				**469.63**	106.34	**49936.00**
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 TX 11.90Km X 2.0/km= 30.46	30.46							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
		98.46							
	Area Weightage @ 8%	7.88							
	Total	**106.34**							
14	Sub Total								**1978606.00**

(69)

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
15	For Third Part QC inspection Charges @ 1% of Est mate Cost								19786.00
16	Miscellaneous and other Charges	L/S							1608.00
								Total	2000000.00

(Rupees Twenty Lakhs Only)

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2015-16.
3 This works come under B.B.M.P. limits.

Assistant Engineer
W-9

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vijayaranyapura Sub Division

Executive Engineer 22/1/16
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Unichamber one side RCC drain @ 1x1.

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Construction of Link Road from Thindlu Circle to GKVK Road by acquisition of 7 private properties in ward No 09 of Vidyaranyapura sub Division.**

Estimate Cost: 8000000.00

No	Description	Unit	No	L	B	D	Qty	Rate	Amount
	KSRRB M200-14.2 Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled materials, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 meters complete as per specifications. Ii) dismantling brick / tile work, A in lime mortar, MORTH specifications NO. 202 **Page No. 136 Item No. 18.23 / PWD SR 2015-16**	Cum							
	Compound Wall		1	25.00	0.20	1.50	7.50		
	SSM Wall		1	25.00	0.45	0.45	5.06		
			1	30.00	0.60	0.45	8.10		
							20.66	250.56	**5177.00**
	Basic Rate	232.00							
	Area Weightage @8%	18.56							
	Total	**250.56**							
2	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 141 / Item No. 19.1 / PWD SR 2015-16**	Cum							
	For New Drain								
	For Drain Thindlu- GKVK joining road		2	60.00	1.00	1.20	120.00		
	Drain telecom layout cross road L/s		1	80.00	1.00	1.00	80.00		
	Ganesh nagar main road R/s		1	40.00	1.00	1.00	40.00		
	For CD		3	9.00	2.10	1.20	68.04		
	Berm Cutting								
	For Drain Thindlu- GKVK joining road		1	50.00	7.50	0.35	131.25		
	Ganeshnagar main road ch 283 to 373		2	90.00	2.50	0.35	157.50		
	For Compound Wall		1	30.00	0.75	0.75	16.88		
							593.67	83.16	**49369.00**
	Basic Rate	77.00							
	Area Weightage @8%	6.16							
	Total	**83.16**							
3	Removing B.S Slab of Drain and stacking **Page No. 25 / Item No. 5.32 / PWD SR 2015-16**	Sqm							
	Kempegowdangara L/S		1	90.00		0.90	81.00		
							81.00	63.72	**5161.00**
	Basic Rate	59.00							

S No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Area Weightage @ 8%	4.72							
	Total	**63.72**							
1	Refixing stone slabs of drains and pointing in C.M (1:3) **Page No. 25 / Item No. 5.33 / PWD SR 2015-16**	Sqm							
				Qty Vide Item No. 2			**81.00**	78.84	**6386.00**
	Basic Rate	73.00							
	Area Weightage @ 8%	5.84							
	Total	**78.84**							
6	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in ayers not exceeding 15cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1.4.2 **No. 12/ Item No. 4.3/ PWD SR 2015-16**	Cum							
	Thindlu- GKVK joining road		2	50.00	1.00	0.15	15.00		
	Drain telecom layout cross road L/s		1	60.00	1.00	0.15	9.00		
	Ganesh nagar main road R/s		1	40.00	1.00	0.15	6.00		
	For Cds		3	9.00	2.10	0.15	8.51		
	For Compound Wall		1	30.00	0.75	0.15	3.38		
	Flagging Course		2	71.00	0.23	0.10	3.27		
							45.15	5070.60	**228917.00**
	Basic Rate	4695.00							
	Area Weightage @ 8%	375.60							
	Total	**5070.60**							
8	KSRB 5.2.3 . Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6**, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m apart in each course including cost of materials labour curing complete as per specifications.KBS 5.1.13 **Page No. 23 / Item No. 5.6 / PWD SR 2015-16**	Cum							
	For Culverts		6	9.00	0.80	1.00	32.40		
	For Compound Wall Foundation		1	30.00	0.60	0.45	8.10		
			1	30.00	0.45	0.45	6.08		
							46.58	4135.32	**192603.00**
	Basic Rate	3829.00							
	Area Weightage @ 8%	306.32							
	Total	**4135.32**							

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
7	KSRB-4-1.1 : Providing and laying in position plain cement concrete of **mix 1:2:4 with OPC cement @ 240 kgs with 40mm** and down size graded granite metal coarse aggregares @ 0.878 cum and fine aggregates @ 0.459 cum machine mixed concrete laid in layers not exceeding 15cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, **No. 12 / Item No. 4.1 / PWD SR 2015-16**	Cum							
	Coping for CDs		3	9.00	2.00	0.10	5.40		
	For Compound Wall		1	30.00	0.45	0.10	1.35		
	Ganesh Layout		2x2	71.00	0.20	0.10	5.68		
							12.43	5490.72	**68250.00**
	Basic Rate	5084.00							
	Area Weightage @ 8%	406.72							
	Total	**5490.72**							
8	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (cuoin, Jamb, closer blocks) with solic concrete blocks of size 40x20x20 cms conforming to I.S. 2185/1985 in superstructure including cost of materials, labour charges, scaffolding curing complete as per specifications **Page No. 25 / Item No. 5.27 / PWD SR 2015-16**	Sqm							
	For Compound Wall		1	30.00		1.50	45.00		
	Ganesh Layout Flagging Course		2x2	71.00		0.40	113.60		
							158.60	1018.44	**161525.00**
	Basic Rate	943.00							
	Area Weightage @ 8%	75.44							
	Total	**1018.44**							
9	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal**, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers abutments, pillars posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchar blocks plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No KBS 4.1,4.6, **Page No. 13 / Item No. 4.11 / PWD SR 2015-16**	Cum							

Description	Unit	No.	L	B	D	Qty	Rate	Amount
Drain Trinidu-GKVK road Bottom concrete		2	50.00	1.00	0.15	15.00		
Drain telecom layout cross road L/s		1	50.00	0.90	0.15	6.10		
Ganesh nagar main road R/s		1	40.00	0.90	0.15	5.40		
Side Wall		4	50.00	0.15	0.75	22.50		
		2	50.00	0.15	0.60	10.80		
		2	40.00	0.15	0.60	7.20		
		2	50.00	1.00	0.10	10.00		
		2	9.00	1.80	0.25	8.10		
						87.10	6198.12	**539856.00**
Basic Rate	5739.00							
Area Weightage @ 8%	458.12							
Total	**6198.12**							

KSRB 4.9.2: Providing T.M.T steel reinforcement or R.C.C work including straightening, cutting bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, TOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2015-16**

Tonne

		0.06	87.10			5.23		
						5.23	69805.60	**364805.00**
Basic Rate	64838.00							
Area Weightage @ 8%	5170.80							
Total	**69805.60**							

SRB 4.6.2 : Providing and removing centering, uttering, strutting, propping etc., and **removal form work for flat surface such as spended floors, roofs, landings, balconies d lintels, thickness upto 200 mm** including st of all materials, labour complete as per ecifications. Specification NO KBS 4.6.2 Page . 15 / **Item No. 4.18 / PWD SR 2015-16**

Sqm

r Drain side wall								
indlu-GKVK road		4	50.00		0.75	150.00		
ecom layout cross road L/s		4	50.00		0.60	144.00		
nesh nagar main road R/s		4	40.00		0.60	96.00		
r covering slab		2	50.00		0.60	60.00		
r Cds		3	9.00		0.75	20.25		
os		3	21.60		0.30	19.44		
Basic Rate	305.00					489.69	329.40	**161304.00**
Area Weightage @ 8%	24.40							
Total	**329.40**							

S. No.	Description	Unit	No	L	B	D	Qty	Rate	Amount
12	KSRB 15-3 8 :- Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 113 / Item No. 15.15 / PWD SR 2015-16**	Sqm							
	Compound Wall		2	25.00		1.60	80.00		
	Basic Rate	210.00					**80.00**	226.80	**18144.00**
	Area Weightage @ 8%	16.80							
	Total	**226.80**							
13	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transporation etc. complete **Page No. 25 / Item No. 5.30 / PWD SR 2015-16**	Nos							
			2	50.00			**222**		
				0.45					
	Basic Rate	297.00					**222**	320.76	**71280.00**
	Area Weightage @ 8%	23.76							
	Total	**320.76**							
14	KSRB 15.19.1 : Providing and applying ready mix **priming coat over concrete** / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after throughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. **Page No. 121 / Item No. 15.80 / PWD SR 2015-16**	Sqm							
			2	50.00		0.35	35.00		
							35.00	27.00	**945.00**
	Basic Rate	25.00							
	Area Weightage @ 8%	2.00							
	Total	**27.00**							
15	KSRB 15.20.1 : Providing and applying floor **painting with ready mix two coats** (Excluding priming coat) on new s concrete / masonry / asbestos cement sheet / / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. **Page No. 121 / Item No. 15.83 / PWD SR 2015-16**	Sqm							
				Qty Vide Item No. 10			35.00		
							35.00	51.84	**1814.00**

Sl.	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Basic Rate	48.00							
	Area Weightage @ 8%	3.84							
	Total	**51.84**							
16	KSRRB M300-53: Construction of embankment with approved material gravel/murrum with all lifts and leads transporting to site spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) **MORTH specification No. 305, No. 147 / Item No. 19.60 / PWD SR 2015-16**	Cum							
	Thindlu-GKVK Joining road		1	50.00	7.50	0.30	112.50		
							112.50	311.04	**34992.00**
	Basic Rate	285.00							
	Area Weightage @ 8%	23.04							
	Total	**311.04**							
17	KSRRB 300-47: scarifying kankar/gravel/metal crust upto 150mm thick with pick axes and disposal of stuff within a lead of 100 meters including cost of all labour charges complete as per specifications MORTH chapter 3, **No. 146 / Item No. 19.53 / PWD SR 2015-16**	Sqm							
	Thindlu		2	120.00	2.00		480.00		
	Ganesh nagar main road Ch 265 to 355 mts		2	90.00	1.50		270.00		
							750.00	25.92	**19440.00**
	Basic Rate	24.00							
	Area Weightage @ 8%	1.92							
	Total	**25.92**							
18	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well preparad surface and compacting with vibratory roller to achieve the desired density complete as per MORTH specifiction NO. 406, **Page No. 157 / Item No. 20.18 / PWD SR 2015-16**	Cum							
	Thindlu-GKVK Joining road		1	50.00	7.50	0.30	112.50		
			2	120.00	2.00	0.20	96.00		
	Ganesh nagar main road Ch 265 to 355 mts		2	90.00	1.50	0.20	54.00		
							262.50	1713.96	**449915.00**
	Basic Rate	1587.00							
	Area Weightage @ 8%	126.96							
	Total	**1713.96**							

Sl. No.	Description	Unit	No.	L	B	D	Qty	Rate	Amount
19	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM, WMM including cleaning of road surface and spraying primer at the rate of 0.60 Kg / sqm using mechnical means complete as per specifications. MORTH specification NO. 502, **Page No. 160 / Item No. 21.6 / PWD SR 2015-16**	Sqm							
	Thindlu-GKVK Joining road		1	50.00	7.50		375.00		
			1	120.00	7.50		900.00		
	Ganesh nagar main road Ch 265 to 355 mts		1	90.00	7.50		675.00		
							1950.00	32.40	**63180.00**
	asper Revised Basic Rate	30.00							
	Area Weightage @ 8%	2.40							
	Total	**32.40**							
20	KSRRB 500-11: Providing and laying **bituminous macadam** on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density but excluding cost of primer / tack coat including lead lift and cost including lead, lift and cost of all materials, labour HOM of machineries complete as per specifications **using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II (50 mm to 75 mm) with 3.3 % VG-30 Bitumen, Page No. 161 / Item No. 21.11.6/ PWD SR 2015 16**	Cum							
	Thindlu-GKVK Joining road		1	50.00	7.50	0.050	18.75		
			1	120.00	7.50	0.050	45.00		
	Ganesh nagar main road Ch 265 to 355 mts		1	90.00	7.50	0.050	33.75		
							97.50	6193.80	**603896.00**
	Basic Rate	5735.00							
	Area Weightage @ 8%	458.80							
	Total	**6193.80**							
21	KSRRB 500-7: Providing and applying **tack coat** using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding clearing of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications MORTH chapter 5. **No. 160 / Item No. 21.7 / PWD SR 2015-16**	Sqm							
	Thindlu-GKVK Joining road		1	50.00	7.50		375.00		
			1	120.00	7.50		900.00		
	Ganesh nagar main road Ch 265 to 355 mts		1	90.00	7.50		675.00		
							1950.00	15.12	**29484.00**
	asper Revised Basic Rate	14.00							

Sl No	Description	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage @ 8%	1.12							
	Total	**15.12**							
22	KSRRB M500-19: providing and laying **bituminous concrete** 40mm thick with hot mix plant using crushed aggregates of specified grading premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desire compaction as per MORTH specification clause No. 500.9 complete in all respects as per specifications. MORTH Specificationon NO. 509, **using 40/60 TPH capacity with Mechanical Paver Gr-II (30 mm to 45 mm) with 6% VG-30 Bitumen, Page No. 164 / Item No. 21.22.6/ PWD SR 2015-16**								
	Thindlu-GKVK Jolning road	Cum							
			1	50.00	7.50	0.040	15.00		
	Ganesh nagar main road Ch 265 to 355 mts		1	120.00	7.50	0.040	36.00		
			1	90.00	7.50	0.040	27.00		
							78.00	9822.60	**766163.00**
	Basic Rate	9095.00							
	Area Weightage @ 8%	727.60							
	Total	**9822.60**							
3	1031 - Providing J.C.B Excavator on Hire basis including Operator and Fuel (P. XXXXIV/I. 23) PWD SR 2015-16								
	for demolision of buildings	Day	5				**5**	6720.00	**33600.00**
	Basic Rate	6720.00							
4	1023 - Hire Charges of Tipper including Operator and Fuel (P. XXXX/V / I. 9) PWD SR 2015-16)								
	for Removing the demolised building materials	Day	2x5				**10**	2016.00	**20160.00**
	Basic Rate	2016.00							
26	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloacing. **From 0.00 to 11.90 Km (PWD SR 2015-16** Rates P No 139)	Cum							
			Qty. Vide Item No. 1				**593.67**	106.34	**63128.00**
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 TX 11.90Km X 2.0/km= 30.46	30.46							
	Add loading and unloading Charges It No 17.1 **KSRRB M 100-1**	68.00							
		98.46							
	Area Weightage @ 8%	7.88							
	Total	**106.34**							
8	Sub Total								**3959494.00**

53

Sl. No.	Description	Unit	No.	L	B	D	Qty	Rate	Amount
27	For Third Part QC Inspection Charges @ 1% of Estimate Cost								39595.00
28	**Compensation for Buildings**								4000000.00
29	Miscellaneous and other Charges	L/S							911.00
								Total	8000000.00

(Rupees Eighty Lakhs Only)

CERTIFICATE:

1. The work spot has been inspected and the work is found necessary.
2. This estimate is prepared as per PWD SR of 2015-16.
3. This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer 22/11/16
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

.3 x .3

BRUHAT BANGALORE MAHANAGARA PALIKE

(43)

YELAHANKA ZONE

Name of the work: **Estimate for Improvements to Roads and Drains at Kalappa Layout and Surrounding areas in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.**

Estimate Cost: 2500000.00

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. Page **No. 141 / Item No. 19.1 / PWD SR 2014-16**	Cum							
	Salaman House to SWD Desilting of Drains		1	200.00	0.60	0.35	42.00		
	Byregowda House to Salaman House		1	100.00	0.60	0.35	21.00		
	Muneshwara layout 2nd Main Road		2	200.00	0.60	0.35	84.00		
	New Drain Sri Archid 1st Cross		2	75.00	1.00	1.00	150.00		
	Culverts		7	6.00	2.00	1.20	100.80		
							397.80	83.16	**33081.00**
	Basic Rate	77.00							
	Area Weightage @8%	6.16							
	Total	**83.16**							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2015-16**	Cum							
	Culvert		7	6.00	2.00	0.15	12.60		
	For New Drain		2	75.00	1.00	0.15	22.50		
							35.10	5070.60	**177978.00**
	Basic Rate	4695.00							
	Area Weightage @ 8%	375.60							
	Total	**5070.60**							
3	KSRB 5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6**, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 **Page No. 23 / Item No. 5.6 / PWD SR 2015-16**	Cum							
			7x2	6.00	0.60	0.90	45.36		
							45.36	4135.32	**187578.00**

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Basic Rate	3828.00							
	Area Weightage @ 8%	306.32							
	Total	**4135.32**							
4	KSRB 15.1.2: Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. **Page No. 109 / Item No. 15.2 / PWD SR 2015-16**	Sqm							
			7x2	6.00		0.90	75.60		
							75.60	96.12	**7267.00**
	Basic Rate	89.00							
	Area Weightage @ 8%	7.12							
	Total	**96.12**							
5	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item No. 4.6 / PWD SR 2015-16**	Cum							
	Pointing		7	6.00	1.80	0.10	7.56		
	Ramp		7x2	6.00	1.00	0.15	12.60		
	Existing Drain Vent Cocnrete		1	65.00	0.60	0.10	23.40		
			1	50.00	0.60	0.10	18.00		
			1	55.00	0.60	0.10	19.80		
							81.36	5490.72	**446725.00**
	Basic Rate	5084.00							
	Area Weightage @ 8%	406.72							
	Total	**5490.72**							
3	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20** with OPC cement @ **320 kgs, with 20mm and** down size graded **granite metal**, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplasticiser @ 3lts confirming to IS 9103-1999 reaffirmed-2005 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached pilasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, **Page No. 13 / Item No. 4.11 / PWD SR 2015-16**	Cum							
	Salaman House to SWD		2	80.00	0.15	0.25	6.00		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Byregowda House to Salaman House		2	65.00	0.15	0.20	3.90		
	Muneshwara layout 2nd Main Road		2	90.00	0.15	0.25	6.75		
	Salaman House to SWD Covering Slab		1	95.00	0.90	0.10	8.55		
	Byregowda House to Salaman House		1	110.00	0.90	0.10	9.90		
	Muneshwara layout 2nd Main Road		2	125.00	0.90	0.10	22.50		
	New Drain Bottom		2	75.00	0.90	0.15	20.25		
	Side Wall		4	75.00	0.15	0.60	27.00		
	Covering Slab		2	75.00	0.90	0.10	13.50		
							118.35	6198.12	**733548.00**
	Basic Rate	5739.00							
	Area Weightage @ 8%	459.12							
	Total	**6198.12**							
4	KSRB 4.6.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No KBS 4.6.3 **TMT Bars FE 500** Page No. **17 / Item No. 4.46.2 / PWD SR 2015-16**	Tonne							
	For Roof, Columns @ 90 Kg / Cum		0.08	118.35			**9.47**	69805.80	**660921.00**
	Basic Rate	64635.00							
	Area Weightage @ 8%	5170.80							
	Total	**69805.80**							
5	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31 / PWD SR 2015-16**	Sqm							
	Bottom Covering		1	65.00	0.60		39.00		
			1	70.00	0.60		42.00		
			1	100.00	0.60		60.00		
	New drain Side Wall		2x4	75.00		0.60	360.00		
			2	75.00	0.60		90.00		
			2x2	75.00		0.10	30.00		
							621.00	306.72	**190473.00**
	Basic Rate	284.00							
	Area Weightage @ 8%	22.72							
	Total	**306.72**							
10	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. **From 0.00 to 11.90 Km** (PWD SR Rates P No 139)	Cum							
				Vide Item No. 1			**338.13**	106.34	**35956.00**
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 TX 11.90Km X 2.0/km= 30.46	30.46							
	Add loading and unloading Charges It **No 17.1** KSRRB M 100-1	68.00							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
							98.46		
	Area Weightage @ 8%						7.88		
	Total						**106.34**		
11	Sub Total								**2473627.00**
12	For Third Part QC inspection Charges @ 1% of Estimate Cost								**24735.00**
13	Miscellaneous and other Charges	L/S							**1738.00**
								Total	**2500000.00**

(Rs. Twenty Five Lakhs Only)

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2015-16.
3 The provisions wore made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
22/1/16

Verify
convert to actual
Use coverage

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: Estimate for Improvements to Roads and Drains at KNV 1st Stage, 2nd Stage and Surrounding areas in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Estimate Cost: 2500000.00

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 141 / Item No. 19.1 / PWD SR 2014-16**								
	Padma House Road	Cum	2	110.00	1.00	0.90	198.00		
	Cross Road		1	80.00	1.00	0.90	72.00		
	Desilting of Existing Drain		1	65.00	0.60	0.35	13.65		
	Culverts		3	7.00	2.00	1.20	50.40		
							334.05	83.16	**27780.00**
	Basic Rate	77.00							
	Area Weightage @8%	6.16							
	Total	**83.16**							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1.4.2. **No. 12/ Item No. 4.3/ PWD SR 2015-16**								
	Padma House Road	Cum	2	110.00	1.00	0.15	33.00		
	Cross Road		1	80.00	1.00	0.15	12.00		
	Culverts		3	7.00	2.00	0.15	6.30		
							51.30	5070.60	**260122.00**
	Basic Rate	4695.00							
	Area Weightage @ 8%	375.60							
	Total	**5070.60**							
3	KSRB 5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation** with cement mortar **1:6**, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 **Page No. 23 / Item No. 5.6 / PWD SR 2015-16**								
		Cum	3x2	7.00	0.60	0.90	52.92		
							52.92	4135.32	**218841.00**

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Basic Rate	3829.00							
	Area Weightage @ 8%	306.32							
	Total	**4135.32**							
4	KSRB 15.1.2: Providing flush pointing to square rubble course or uncoursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. **Page No. 109 / Item No. 15.2 / PWD SR 2015-16**	Sqm							
			3x2	7.00		0.90	37.80		
							37.80	96.12	**3633.00**
	Basic Rate	89.00							
	Area Weightage @ 8%	7.12							
	Total	**96.12**							
5	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum. machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1.4.2. **No. 12/ Item No. 4.6 / PWD SR 2015-16**	Cum							
	Pointing		3	7.00	1.80	0.10	3.78		
	Ramp		3x2	7.00	1.00	0.15	6.30		
	Existing Drain Vent Concrete		1	65.00	0.60	0.10	23.40		
							33.48	5490.72	**183829.00**
	Basic Rate	5084.00							
	Area Weightage @ 8%	406.72							
	Total	**5490.72**							
6	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with** OPC cement **@ 320 kgs, with 20mm and down size graded granite metal**, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastaiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1.4.6, **Page No. 13 / Item No. 4.11 / PWD SR 2015-16**	Cum							
	Bottom Concrete		2	110.00	0.90	0.15	29.70		
			1	50.00	0.90	0.15	10.80		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Side Wall		4	110.00	0.15	0.60	39.60		
			2	80.00	0.15	0.60	14.40		
	Covering Slab		2	110.00	0.90	0.10	19.80		
			1	80.00	0.90	0.10	7.20		
	Culvert Deck Slab		3	7.00	1.80	0.23	8.69		
							130.19	6198.12	**806958.00**
	Basic Rate	5739.00							
	Area Weightage @ 8%	459.12							
	Total	**6198.12**							
7	KSRB 4.9.2 Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2015-16**	Tonne							
	For Roof, Columns @ 90 Kg / Cum		0.07	130.19			**9.11**	69805.80	**636181.00**
	Basic Rate	64635.00							
	Area Weightage @ 8%	5170.80							
	Total	**69805.80**							
8	KSRB 4-5.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31 / PWD SR 2015-16**	Sqm							
	Side Wall		2x4	110.00		0.60	528.00		
			1x4	80.00		0.60	192.00		
	Covering Bottom		2	110.00	0.60		132.00		
			1	80.00	0.60		48.00		
	Covering Sides		2x2	110.00		0.10	44.00		
			2	80.00		0.10	16.00		
	Culvert Deck Slab Bottom		3	7.00	0.60		12.60		
			3x2	7.00		0.23	9.66		
			3x2	1.80		0.23	2.48		
							984.74	306.72	**302041.00**
	Basic Rate	284.00							
	Area Weightage @ 8%	22.72							
	Total	**306.72**							
9	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. **From 0.00 to 11.90 Km** (PWD SR Rates P No 139)	Cum							
				Vide Item No. 1			**334.05**	106.34	**35522.00**
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 TX 11.90Km X 2.0/km= 30.46	30.46							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
		98.46							
	Area Weightage @ 8%	7.88							
	Total	**106.34**							
10	Sub Total								**2474907.00**
11	For Third Part QC inspection Charges @ 1% of Estimate Cost								**24749.00**
12	Miscellaneous and other Charges	L/S							**344.00**
								Total	**2500000.00**
	(Rs. Twenty Five Lakhs Only)								

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2015-16.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
2-2-2016

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

ame of the work: **Improvements and Lighting arrangement in Dodda Bommasandra lake in ward No 10 of Vidyaranyapura sub Division.**

							Estimate Cost:	5000000.00
Description	Unit	No.	L	B	D	Qty	Rate	Amount
KSRRB 300-1: Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 141 / Item No. 19.1 / PWD SR 2015-16**	Cum							
Leveling of Pathway		1	845.00	3.00	0.10	253.50		
						253.50	83.16	**21081.00**
Basic Rate	77.00							
Area Weightage @8%	6.16							
Total	**83.16**							
KSRRB M300-53: Construction of embankment with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) **MORTH specification No. 305, No. 147 / Item No. 19.60 / PWD SR 2015-16**	Cum							
		1	845.00	3.00	0.25	633.75		
						633.75	311.04	**197122.00**
Basic Rate	288.00							
Area Weightage @ 8%	23.04							
Total	**311.04**							
KSRB 2.10 : Providing sand cement bed with 6% cement with all leads for all materials and lift of 1.5m, machine mixed, laid in layers of 15cms. thick and well compacted for foundation, including curing cost of materials labour and HOM complete as per specifications. Specification No. KBS, **Page No. 6 / Item No. 2.17 / PWD SR 2015-16**	Cum							
		1	845.00	3.00	0.10	253.50		
						253.50	311.04	**78849.00**
Basic Rate	288.00							
Area Weightage @ 8%	23.04							
Total	**311.04**							

Description	Unit	No	L	B	D	Qty	Rate	Amount
KSR 14.6-1 . Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufactures of blocks of approved size , shape and colour with a minimum compressive strength of 281kgs per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into ts final level, including cost of materials, labour curing complete as per specifications. **Page No. 101 / Item No. 14.6 / PWD SR 2015-16**	Sqm							
Leveling of Pathway		1	845.00	3.00		2535.00		
						2535.00	934.20	**2368197.00**
Basic Rate	865.00							
Area Weightage @8%	69.20							
Total	**934.20**							
Providing and fixing pre cast solid cement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials labour hire charges of machinery, loading unloading, lead and lift transportation etc complete **Page No. 25 / Item No. 5.30 / PWD SR 2015-16**	Nos							
		2	845.00			**3756**		
			0.45					
Basic Rate	297.00					**3756**	320.76	**1204632.00**
Area Weightage @ 8%	23.76							
Total	**320.76**							
SRB 16.19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including repairing the surface after throughly cleaning of oil, grease, dirt and other foreign matter and sand papering including cost of meterials, abour, complete as per specifications. **Page No. 121 / Item No. 15.80 / PWD SR 2015-16**	Sqm							
		2	845.00		0.35	591.50		
						591.50	27.00	**15971.00**
Basic Rate	25.00							
Area Weightage @ 8%	2.00							
Total	**27.00**							

S. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
7	KSRR 15.20.1 Providing and applying floor painting with ready mix two coats (Excluding priming coat) on new s concrete / masonry / asbestos cement sheet / / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour complete as per specifications Page No. 121 / Item No. 15.83 / PWD SR 2015-16	Sqm							
			Qty Vide Item No. 6				591.50		
							591.50	51.84	**30663.00**
	Basic Rate	48.00							
	Area Weightage @ 8%	3.84							
	Total	**51.84**							
8	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading From 0.00 to 11.90 Km (PWD SR 2015-16 Rates P No 139)	Cum							
			Qty. Vide Item No. 1				**202.80**	106.34	**21565.00**
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.25 TX 11.90Km X 2.0/km= 30.46	30.46							
	Add loading and unloading Charges It No 17.1 KSRRB M 100-1	68.00							
		98.46							
	Area Weightage @ 8%	7.88							
	Total	**106.34**							
	Electrical								
9	Supplying High pressure sodium vapour street light fitting die cast aluminium canopy with aluminium housing for control gear finished stove enamel gray glassy white canopy interior with a pair of anodized aluminium reflectors with toughened flat glass gasket lining for drip insect resistance duly wired with porcelain holder copper choke igniter and HPF condenser including a sodium vapour lamp of 250 Watts a) Group 'A'	Each							
			135				**135**	6150.00	**830250.00**
0	Supplying & fixing mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 or rail or RCC pole/wall using suitable clamps, bolts and nuts and wiring using suitable capacity wires complete. b) Using 32mm dia G.I pipe	Each							
			135				**135**	685.00	**92475.00**
1	Supplying of LT UG cable having aluminium conductor PVC insulated sheathed, galvanized, steel wire/steel tap armoured cable with PVC outer sheathing 1.1KV Class I. Class 'A' PVC Cable d) 4 core 16sqmm	Mtr							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
12	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe/ stoneware pipe/ on wall/ on pole as required ft. On wall /Structure a) 6 sqmm to 16sqmm	Mtr	1	45.00			45.00	150.00	6750.00
13	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes f) 16 sqmm	Each	1	405.00			405.00	18.00	7290.00
14	Supplying and fixing Moulded Case Circuit Breaker (MCCB) Over the existing wood/panel board using necessary screws, bolts, nuts and wiring thermal Magnetic Microprocessed release and Earth Fault as per IS 13947. (double) THREE POLE a) 100 Amps 25 kA, 2) Group 'B'	Each	50				50	14.00	700.00
	Supply and Installation/Fixing/Provision for mounting of HRC Fuse /MCB with suitable connector/terminal for 3 Ph/1 Ph connections with Loop-in & Loop-Out terminals for 10 Sqmm/25 sqmm 3.5 C Al/AR/Cu/AR Cable and oranchout 2.5 Sqmm 2 Core Al/Cu PVC insulated cable, enclosure, which should be shock proof, safe IP 65 Weather Proof, rust proof dust proof water proof having Internally Embedded Gasket with provision, for cable entry through IP 65 Thermoplastic, polyamide glands and /or Grommets a) 190x200x98mm	Each	10				10	3460.00	34600.00
	ring for lighting/power circuit using one of PVC insulated 1100v grade multistrand Aluminium conductor single core cable in open or concealed form of wiring. i Group A Materials. c) 10 mm	Mtr	10				10	925.00	9250.00
	ply and fixing of backlite D.P/Socket/switch Without neon indicator over existing wood or flush mounting in plastic plates/switches g Group 'A' Material a) 32Amps h/project type DP switch	Each	1	250.00			250.00	23.00	5750.00
	ying and flush mounting teak wooden box front plate made of not less than 12mm wood, after due groove cutting, necessary ary patch work complete b) 12"x9"x3" 228x76mm)	Each	155				155	145.00	22475.00
			30				30	80.00	2400.00
	tal								4950020.00

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
27	For Third Part QC Inspection Charges @ 1% of Estimate Cost								49500.00
29	Miscellaneous and other Charges	L/S							480.00
								Total	5000000.00

(Rupees Fifty Lakhs Only)

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2015-16 and KPWD 2010-11
3 This works come under B.B.M.P limits.

Assistant Engineer
Ward No. 60

Assistant Executive Engineer
Brunat Bangalore Mahanagara Palike
Vidayaranyapura Sub Division

Executive Engineer
Brunat Bangalore Mahanagara Palike 2-2-11-16
Executive Engineer
Vidyaranyapura Division
BBMP, Bangalore-92

- Walking path to be removed from this.
- Add children play equipment.
- Check if two high mast electrical light can be installed instead of 13 light poles.

BRUHAT BANGALORE MAHANAGARA PALIKE

(114)

YELAHANKA ZONE

Name of work: Estimate for Improvements to balance roads and drains at Muniswamappa Layout in ward No. 11 of Vidyaranyapura sub division.

Estimate Cost Rs. 2500000.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB SOR-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 141 / Item No. 19.1 / PWD SR 2015-16**	Cum							
	For Drain Desilting								
	Munswamappa Layout Cross Roads N/S		2	45.00	0.45	0.35	14.18		
			2x2	38.00	0.45	0.35	23.94		
	S/S		2	140.00	0.45	0.35	44.10		
			2	78.00	0.45	0.35	24.57		
			2	74.00	0.45	0.35	23.31		
	Cross Racads		2	53.00	0.45	0.35	16.70		
			2	139.00	0.45	0.35	43.79		
			5x2	30.00	0.45	0.35	47.25		
	For Road Work								
	Munswamappa Layout Cross Roads N/S		1	45.00	4.50	0.20	40.50		
			2	38.00	4.50	0.20	68.40		
	S/S		1	140.00	4.50	0.20	126.00		
			1	78.00	4.20	0.20	65.52		
			1	74.00	4.50	0.20	66.60		
	Cross Racads		1	53.00	5.00	0.20	53.00		
			1	139.00	5.00	0.20	139.00		
			5	30.00	4.50	0.20	135.00		
							931.85	83.16	**77492.00**
	Basic Rate	77.00							
	Area Weightage @8%	6.16							
	Total	**83.16**							
2	Removing B.S Slab of Drain and stacking **Page No. 25 / Item No. 5.32 / PWD SR 2015-16**	Sqm							
	Munswamappa Layout Cross Roads N/S		2	45.00		1.35	121.50		
			2x2	38.00		1.35	205.20		
	S/S		2	140.00		1.35	378.00		
			2	78.00		1.35	210.60		
			2	74.00		1.35	199.80		
	Cross Racads		2	53.00		1.35	143.10		
			2	139.00		1.35	375.30		
			5x2	30.00		1.35	405.00		
							2038.50	63.72	**129893.00**
	Basic Rate	59.00							
	Area Weightage @ 8%	4.72							
	Total	**63.72**							
3	Refixing stone slabs of drains and pointing in C M (1:3) Page No. 25 / **Item No. 5.33 / PWD SR 2015-16**	Sqm							
				Qty Vide Item No. 2			**2038.50**	78.84	**160715.00**
	Basic Rate	73.00							
	Area Weightage @ 8%	5.84							
	Total	**78.84**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of upper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per MORTH specification NO. 406, **Page No. 157 / Item No. 20.18 / PWD SR 2015-16**	Cum							
	Munswamappa Layout Cross Roads N/S		1	45.00	4.50	0.20	40.50		
			2	38.00	4.50	0.20	68.40		
	S/S		1	140.00	4.50	0.20	126.00		
			1	78.00	4.20	0.20	65.52		
			1	74.00	4.50	0.20	66.60		
	Cross Roads		1	53.00	5.00	0.20	53.00		
			1	139.00	5.00	0.20	139.00		
			5	30.00	4.50	0.20	135.00		
	Basic Rate	1587.00					**694.02**	1713.96	**1189523.00**
	Area Weightage @ 8%	126.96							
	Total	**1713.96**							
	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM, WMM including cleaning of road surface and spraying primer at the rate of 0.60 Kg / sqm using mechnical means complete as per specifications. MORTH specification NO. 502, **Page No. 160 / Item No. 21.6 / PWD SR 2015-16**	Sqm							
	Munswamappa Layout Cross Roads N/S		1	45.00	4.50		202.50		
			2	38.00	4.50		342.00		
	S/S		1	140.00	4.50		630.00		
			1	78.00	4.20		327.60		
			1	74.00	4.50		333.00		
	Cross Roads		1	53.00	5.00		265.00		
			1	139.00	5.00		695.00		
			5	30.00	4.50		675.00		
	Basic Rate	30.00					**3470.10**	32.40	**112431.00**
	Area Weightage @ 8%	2.40							
	Total	**32.40**							
	KSRRB M500-18: Providing and laying **semi dense bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment rolling with smooth wheeled, vibratory and tandem roller to achieve the desired connection as per MORTH specifications clause No. 500.8 complete in all respects as per specifications **with 40/60 TPH capacity H.M.P with Mechanical paver Gr-II (5 mm to 30 mm) with 5 % VG-10 Bitumen Page No. 163 / Item No. 21.20.12 / PWD SR 2015-16**	Cum							
	Munswamappa Layout Cross Roads N/S		1	45.00	4.50	0.025	5.06		

(12)

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
			2	36.00	4.50	0.025	8.55		
			1	140.00	4.50	0.025	15.75		
	S/S		1	78.00	4.20	0.025	8.19		
			1	74.00	4.50	0.025	8.33		
			1	53.00	5.00	0.025	6.63		
	Cross Rabads		1	139.00	5.00	0.025	17.38		
			5	30.00	4.50	0.025	16.88		
							86.75	8132.40	**705506.00**
	Basic Rate	7530.00							
	Area Weightage @ 8%	602.40							
	Total	**8132.40**							
7	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcud ng loading and unloading. **From 0.00 to 11.90 Km (PWD SR 2015-16** Rates P No 138)	Cum							
			Qty. Vide Item No. 1				**931.85**	106.34	**99089.00**
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 TX 11.90Km X 2.0/km= 30.46	30.46							
	Add loading and unloading Charges It No 17.1 **KSRRB M 100-1**	68.00							
		98.46							
	Area Weightage @ 8%	7.88							
	Total	**106.34**							
8	Sub Total								**2474649.00**
9	Third Party Inspection Charges @ 1%								**24746.00**
10	Add for unforseen and rounding off	L/S							**605.00**
								Total	**2500000.00**

(Rupees Twenty Five Lakhs Only)

ertificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2015-16.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

AE-11

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Brunat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Division

22/1/16

Executive Engineer
Vidyaranyapura Division
BBMP, Bangalore-92

BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of work: Estimate for Improvements to balance roads and drains at Varadharajanagara in ward No. 11 of Vidyaranyapura Sub division.

Estimate Cost Rs. 1500000.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB M200-12.2 Diamantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steal work, including T & P and scaffolding wherever necessary, sorting the diamantled materials, disposal of unserviceable material and stacking the serviceable material with all lifts and lead and lead of 10000 meters complete as per specifications. lime/cement concrete. I.by manual means B. cement concrete grade M-15 & M-20 **No. 136 / Item No. 18.18 / PWD SR 2015-16**								
	5th Varadarajnagara Right Side	Cum	1	73.00	3.50	0.10	25.55		
	5th Cross Road Right Side		1	67.00	4.30	0.10	28.81		
	6th Cross Road Left Side		1	103.00	4.00	0.10	41.20		
							95.56	382.32	**36534.00**
	Basic Rate	354.00							
	Area Weightage @8%	28.32							
	Total	**382.32**							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation and plinth including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1.4.2. **No. 12 / Item No. 4.3 / PWD SR 2015-16**								
	5th Varadarajnagara Right Side	Cum	1	73.00	3.50	0.15	38.33		
	6th Cross Road Right Side		1	67.00	4.30	0.15	43.22		
	6th Cross Road Left Side		1	103.00	4.00	0.15	61.80		
							143.34	5070.60	**726820.00**
	Basic Rate	4695.00							
	Area Weightage @ 8%	375.60							
	Total	**5070.60**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
3	Providing and laying cement concrete using 20mm and down size granite jelly of **ready mixed concrete (RMC)for R.C.C works** laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 18 / Item No. 4.48 / PWD SR 2015-16**								
	5th Varadarajnagara Right Side	Cum	1	73.00	3.50	0.10	25.55		
	6th Cross Road Right Side		1	67.00	4.30	0.10	28.81		
	6th Cross Road Left Side		1	103.00	4.00	0.10	41.20		
							95.56	6332.04	**605090.00**
	Basic Rate	5883.00							
	Area Weightage @ 8%	469.04							
	Total	**6332.04**							
4	Vacuum De-watering with vaccum pump and suction mat and compaction with **skin floater clubbed with floating disc** including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift No. **174 / Item No. 22.7 / PWD SR 2015-16**								
	5th Varadarajnagara Right Side	Sqm	1	73.00	3.50		255.50		
	6th Cross Road Right Side		1	67.00	4.30		288.10		
	6th Cross Road Left Side		1	103.00	4.00		412.00		
							955.60	97.20	**92884.00**
	Basic Rate	90.00							
	Area Weightage @ 8%	7.20							
	Total	**97.20**							
5	Providing **groove cutting** for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine, generator and HOM of machinery including cost of blade coolant etc including cleaning of groove and providing sand and hot bitumne fillars, and filler metal etc., indluding cost of conveyance of all materials, labours, lead and lift charges and all other incidental charges as per drawing and as per specification **Concrete Pavement Page No. 175 / Item No. 22.8.1 / PWD SR 2015-16**								
		Rmt	7	3.50			24.50		
			7	4.30			30.10		
			10	4.00			40.00		
							94.60	124.20	**11749.00**
	Basic Rate	115.00							
	Area Weightage @ 8%	9.20							
	Total	**124.20**							
6	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlouding loading and unloading. **From 0.00 to 11.90 Km** (PWD SR Rates P No 139)	Cum							

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 TX 11.90Km X 2.0/km= 30.46	30.46	Qty. Vide Item No. 1				95.56	106.34	10162.00
	Add loading and unloading Charges It No 17.1 KSRRB M 100-1	68.00							
		98.46							
	Area Weightage @ 8%	7.88							
7	Sub Total Total	106.34							
8	Third Party Inspection Charges @ 1%								1483239.00
9	Miscellaneous and unforeseen charges	L/S							14832.00
									1929.00
								Total	1500000.00

(Rupees Fifteen Lakhs Only)

Certificate:

1. The work spot has been inspected and the work is found necessary.
2. This estimate is prepared as per PWD SR of 2015-16.
3. The provisions were made in this estimate are necessary and adequate.
4. This works come under B.B.M.P. limits.

AE-11
Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
22/1/16